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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6584**
Issued On **23/07/2020**
ORC Ref **03410000N33**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 699kg
Maximum **699kg**
Minimum* **524kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **615.2 0.9753**
Non Spin OSN **598.0 1.0034**

Sails Limitations

Headsails **6** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 131.74**
Flying H/S: **No**
Spin. Pole: **No**

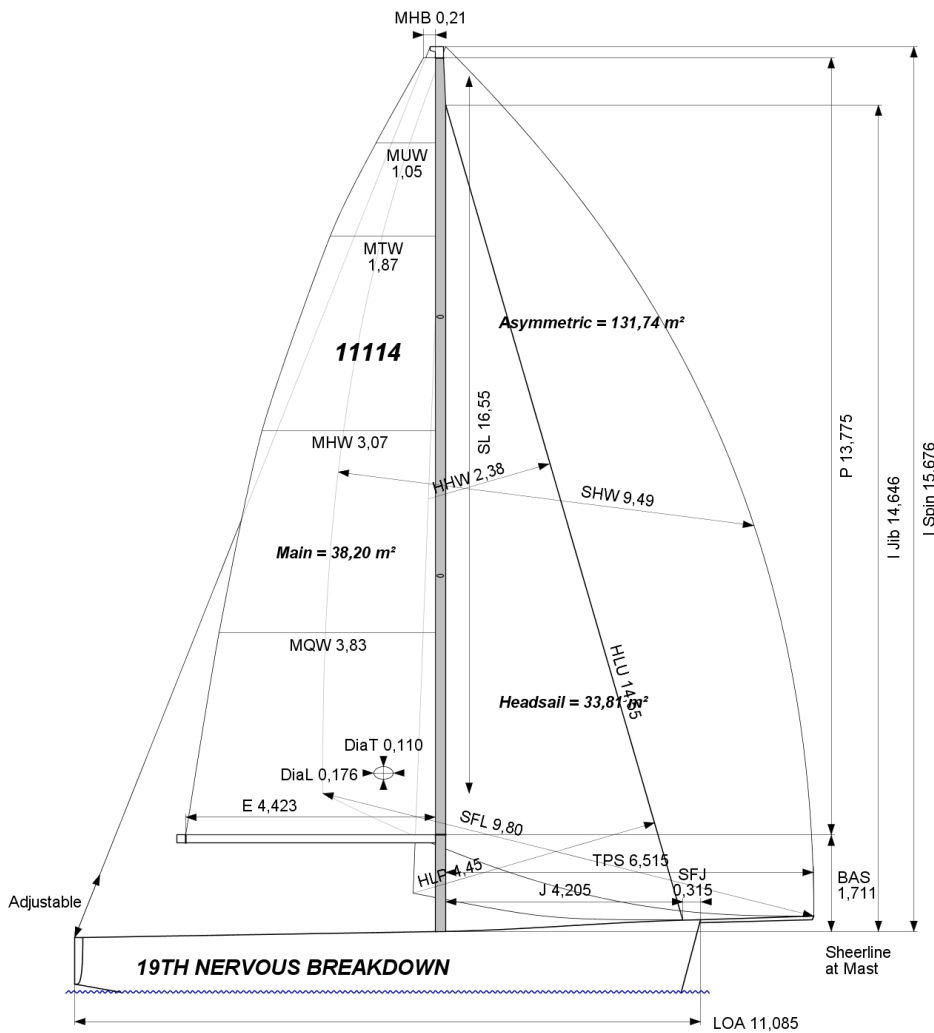
Class Division Length

CDL = 10.209

Stability (Measured)

Limit Positive Stab.: **125.9°**
Stability Index: **125.8**

Owner



BOAT Name 19th Nervous Breakdown Sail Nr 11114		GPH 571.9	HULL Data File US6584 LOA 11.085m Offset File J111.OFF MB 3.294m Displacement 4,288kg Draft 2.189m IMS Division Performance Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder No Light Stanchions No IMSL 10.419m VCGD -0.184m Sink 18.28kg/mm RL 10.026m VCGM -0.197m WS 23.67m² LSM0 10.112m Displacement/Length ratio 4.1471 Water Ballast 0 Trim Tab No BLR Index 0.0000				
CLASS Class J-111 Designer JOHNSTONE Builder CCFC Series 01/2010 Age Date 10/2011 Age Allowance 0.325%		COMMENTS					
PROPELLER Installation Strut PRD 0.384 Type Folding 2 blades PBW 0.120 PIPA 0.0035		BILGEBOARD BS BT BA BF BX BC BY				SCORING OPTIONS	
		COASTAL / LONG DISTANCE		WINDWARD / LEEWARD			
Time on Distance		556.1		626.1			
Time on Time		1.0790		1.0781			
Triple Number		Low	Medium	High	Low	Medium	High
Time on Distance		648.1	508.6	453.6	835.6	625.6	552.3
Time on Time		1.0415	1.3271	1.4882	0.8078	1.0789	1.2222

2020

ORC Club Certificate Appendix

BOAT			
Name	19th Nervous Breakdown	Certificate Number	US6584
Sail Nr	11114	Issued On	23/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	963.1	787.0	696.6	666.9	655.0	647.5	634.7
52°	631.1	526.9	488.1	475.6	470.1	467.4	458.4
60°	596.3	508.1	476.8	462.8	456.1	452.2	442.9
75°	569.9	496.0	467.7	448.0	433.0	424.9	418.2
90°	577.5	490.1	467.1	444.7	422.3	404.4	384.4
110°	564.7	480.0	446.7	425.7	409.7	393.4	364.6
120°	577.4	484.8	448.3	415.2	391.7	373.6	341.3
135°	647.4	517.5	467.6	434.1	399.6	364.9	305.3
150°	768.1	611.0	516.9	470.6	445.9	417.0	348.0
Run VMG	887.0	705.5	596.8	543.0	514.9	481.5	401.8
Selected Courses							
Windward / Leeward	925.0	746.3	646.7	604.9	585.0	564.5	518.3
Circular Random	782.1	633.5	555.2	510.3	482.1	461.7	429.4
Coastal / Long Distance	921.2	701.7	587.2	528.3	496.2	466.0	411.4
Non Spinnaker	861.5	689.3	596.0	541.1	506.7	483.3	451.4

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	41.3°	39.4°	38.1°	37.5°	37.1°	37.1°
Beat VMG	3.74	4.57	5.17	5.40	5.50	5.56	5.67
52°	5.70	6.83	7.38	7.57	7.66	7.70	7.85
60°	6.04	7.09	7.55	7.78	7.89	7.96	8.13
75°	6.32	7.26	7.70	8.04	8.31	8.47	8.61
90°	6.23	7.35	7.71	8.10	8.52	8.90	9.37
110°	6.38	7.50	8.06	8.46	8.79	9.15	9.87
120°	6.24	7.43	8.03	8.67	9.19	9.63	10.55
135°	5.56	6.96	7.70	8.29	9.01	9.87	11.79
150°	4.69	5.89	6.96	7.65	8.07	8.63	10.34
Run VMG	4.06	5.10	6.03	6.63	6.99	7.48	8.96
Gybe Angles	143.5°	145.5°	149.0°	151.5°	149.0°	146.3°	142.3°